This map shows the locations of all the MIN reports from the Avalanche Canada Mountain Information Network web for the 2023/24 ski season in Western Canada. It differentiates between regular MIN reports, in which people report on the snow conditions they experienced and incident reports which are made when an avalanche occurs. I got this data from the avalanche Canada website by inspecting their page's network calls and finding the endpoint they use to download MINs for their online map tool. I then wrote a small python script to fetch all the MINs for the season and save them to a csv which could be imported into Arc pro. I used a similar strategy to download the Avalanche Canada zones which they use to denote different forecast areas in geoJson format. I downloaded the Rogers pass winter restricted and prohibited areas in kml format from the parks Canada website.

I plotted all the MINs on the map, and then also used a spatial join to calculate the percentage of mins that were incident reports for each forecast area and displayed those polygons using a corresponding graduated color scale. I added an inset map focusing on the rogers pass area as that is an area which has very condensed and high skier traffic and is also an area of interest to me as I often ski there.